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EXPRESS MAIL CERTIFICATE

Date 7/19/02 Label No. EU 115470207-us

I hereby certify that, on the date indicated above, this paper or fee was deposited with the U.S. Postal Service & that it was addressed for delivery to the Assistant Commissioner for Patents, Washington, DC 20231 by "Express Mail Post Office to Addressee" service.

B.W. LEE B.W. Lee
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07278

PATENT TRADEMARK OFFICE

Docket No.: 6670/1K338US1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Richard L. LACHANCE; Andre VOVAN

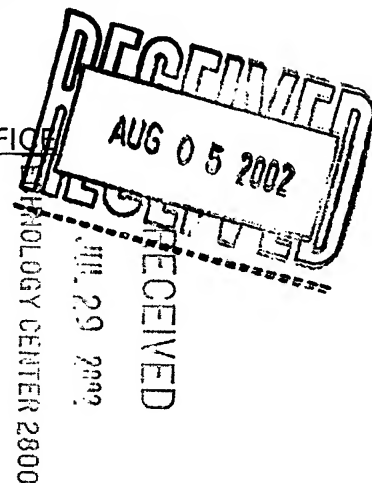
Serial No.: 10/081,733

Art Unit: 2874

Filed: February 22, 2002

Examiner: N/A

For: FINE-TUNING ASSEMBLY FOR OPTICAL GRATINGS



July 18, 2002

INFORMATION DISCLOSURE STATEMENT

Hon. Commissioner of
Patents and Trademarks
Washington, DC 20231

Sir:

This Information Disclosure Statement is submitted in accordance with 37 C.F.R. 1.97, 1.98, and it is requested that the information set forth in this statement and in the listed documents be considered during the pendency of the above-identified application, and any other application relying on the filing date of the above-identified application or cross-referencing it as a related application.

1. This IDS should be considered, in accordance with 37 C.F.R. 1.97, as it

is filed: (Check one of the boxes A-D)

- ☐ A. Within three months of the filing date of the above-identified national application or within three months of the entry into the national stage of the above-identified international application.
- ☒ B. before the mailing date of a first office action on the merits, or a first office action after filing a request for continued examination.
- ☐ C. after (A) and (B) above, but before the mailing date of a final rejection, a notice of allowance, or any other action that closes prosecution, and Applicants have made the necessary statement in box "i" below or paid the necessary fee in box "ii" below.

(check one of the boxes "i" and "ii" below:)

- ☐ i. Counsel states that, upon information and belief, each item of information listed herein was either (a) cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS; or (b) was not cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of undersigned after making reasonable inquiry, was not known to any individual designated in 1.56(c) more than three months prior to the filing of this IDS.
- ☐ ii. A check for the fee set forth in 1. 17(p), presently believed to be \$180, is enclosed.
- ☐ D. after (A), (B) and (C) above, but before payment of the issue fee: Counsel states that, upon information and belief, each item of information listed herein was either (i) cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the IDS; or (ii) was not cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the undersigned after making reasonable inquiry, was not known to any individual designated in 1.56(c) more than three months prior to the filing of this IDS.
- ☐ i. A check for the fee set forth in 1.17 (p), presently believed to be \$180, is enclosed.

2. In accordance with 37 C.F.R. 1.98, this IDS includes a list (e.g., form PTO-1449) of all patents, publications, or other information submitted for consideration by the office, either incorporated into this IDS or as an attachment hereto. A copy of each document listed is attached, except as explained below.

(check boxes A and/or B and fill in blanks, if appropriate.)

Docket No.XXX

- ☐ A. Document(s) _____ is (are) deemed substantially cumulative to document(s) _____, and, in accordance with 1.98(c), only a copy of each of the latter documents is enclosed.
- ☐ B. Certain documents were previously cited by or submitted to the Office in the following prior applications, which are relied upon under 35 U.S.C. 120:

[SERIAL NO. & FILING DATE].

Applicant identifies these documents by attaching hereto copies of the forms PTO- 892 and PTO- 1449 from the files of the prior application(s) or a fresh PTO- 1449 listing these documents, and request that they be considered and made of record in accordance with 1.98(d). Per 37 CFR 1.98(d), copies of these documents need not be filed in this application.

☐ 3. Document(s) _____ are not in the English language. In accordance with 1.98(c), Applicant states:

- ☐ An English translation of each document (or of the pertinent portions thereof), or a copy of each corresponding English-language patent or application is enclosed.
- ☐ A concise explanation of the relevance of document(s) _____ is found in the attached search report (see MPEP § 609 A(3)x).
- ☐ A concise explanation of the relevance of document(s) _____ is set forth as follows: [Insert concise explanation of relevance]
- ☐ A concise explanation of the relevance of document(s) _____ can be found on page(s) _____ of the specification.
- ☐ A concise explanation of document(s) _____ can be found on the attached sheet.

☐ 4. No explanation of relevance is necessary for documents in the English language (see MPEP § 609 A(3)).

☐ 5. Other information being provided for the examiner's consideration follows:

6. In accordance with 37 C.F.R. 1.97(g) and (h), the filing of this IDS should not be construed as a representation that a search has been made or that

information cited is, or is considered to be, material to patentability as defined in §1.56 (b), or that any cited document listed or attached is (or constitutes) prior art. Unless other-wise indicated, the date of publication indicated for an item is taken from the face of' the item and Applicant reserves the right to prove that the date of publication is in fact different.

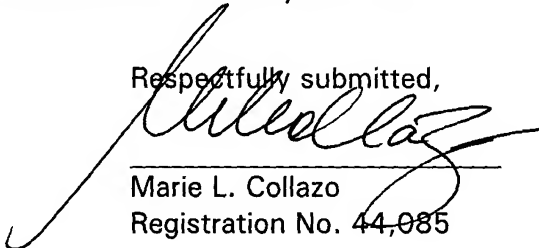
CROSS REFERENCE UNDER 37 C.F.R. §1.78 TO RELATED APPLICATIONS

Pursuant to 37 C.F.R. § 1.78, Applicant notes that the above-identified patent application may be related to the following U.S. Patent Applications:

- (1) U.S. Patent Application Serial No 09/952,715, filed September 12, 2001.
- (2) U.S. Provisional Application No. 60/270,196, filed February 22, 2001.

Early and favorable consideration is earnestly solicited.

Respectfully submitted,

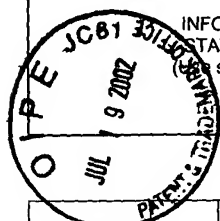


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Docket No.XXX

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (Rev. 2-32) PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 6670/1K338US1	SERIAL NO. 10/081,733
	INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	
	APPLICANT Richard L. LACHANCE et al.	FILING DATE February 22, 2002



U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
1	4 9 3 6 6 4 6	1990	ENOCHS et al.	350	96.20	
2	5 0 0 7 7 0 5	1991	MOREY et al.	350	96.29	
3	5 0 4 2 8 9 8	1991	MOREY et al.	385	37	
4	5 6 9 4 5 0 3	1997	FLEMING et al.	385	37	
5	5 9 9 1 4 8 3	1999	ENGELBERTH	385	37	
6	6 0 4 4 1 8 9	2000	MILLER	385	37	
7	6 0 8 7 2 8 0	2000	BEALL et al.	501	7	
8	6 1 0 1 3 0 1	2000	ENGELBERTH et al.	385	37	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
						YES NO
9)	WO 9 8 5 9 2 6 7	1998	PCT	G02B		

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

10	G.W.Yoffe, P.A. Krug, F. Ouellette, and D. Thorncraft, "Temperature-compensated optical-fiber Bragg gratings", OFC, Vol. 8, 1995 OSA Technical Digest Series, Paper W14, p.134;
11	G.W.Yoffe, P.A. Krug, F. Ouellette and D.A. Thorncraft, "Passive temperature-compensating package for optical fiber gratings", Appl. Optics, Vol. 34, No. 30, Oct. 1995, pp. 6859-6861;
12	T.E. Hammon, J. Bulman, F.Ouellette & S.B.Poole, "A temperature compensated optical fiber Bragg grating band rejection filter and wavelength reference", OECC'98 Technical Digest, pp.350-351, 1996.
13	D.L. Weidman, G.H. Beall, K.C. Chyung, G.L. Francis, R.A. Modavis, and R.M. Morena, "A novel negative expansion substrate material for athermalizing fiber Bragg gratings", 22 nd European Conference on Optical Communication - ECOC'96, Oslo, Paper MoB 3.5 pp.1-61..63
14	A.Inoue, T. Iwashima, T. Enomoto, S. Ishikawa and H. Kanamori, "Optimization of fiber Bragg grating for dense WDM transmission system", IEICE Trans. Electron. Vol. E81-C, No. 8, pp 1209-1218, August 1998
15	D. Weidman, "Fiber Bragg gratings enhance real-world applications", Laser Focus World, pp.99-103; March 1999.
16	T. Iwashima, A. inoue, M. Shigematsu, M. Nishimura, Y. Hattori, "Temperature compensation technique for fiber Bragg gratings using liquids crystalline polymer tubes", Electronics Letters, Vol. 33, No.5, pp.417-419, Feb.27, 1997.
17	S. Magne, S. Rougeault, M. Vilela, and P. Ferdinand, "State-of-strain evaluation with fiber Bragg grating rosettes: application to discrimination between strain and temperature effects in fiber sensors", App.. Optics, Dec. 1997, Vol. 36, No. 36, pp. 9437-9442.
18	V. Arya, D.W. Sherrer, A. Wang, R.O. Claus, and Mark Jones, "Application of Thin-Film Optical Filters to the Temperature Compensation of Optical Fiber Grating-Based Devices" IEEE Trans on Instrum. and Meas. Vol.46, No. 5, Oct.1997, pp. 1173-1177.

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.